

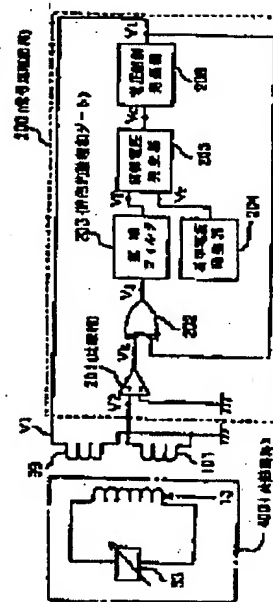
**DEVICE FOR MONITORING TIRE AIR PRESSURE**

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**Abstract of JP4254730**

**PURPOSE:**To obtain a device for monitoring tire air pressure which allows the tire pressure to be detected constantly while an ambient environment of the tire is stable against fluctuation. **CONSTITUTION:**A resonance frequency of a resonance circuit 400 consisting of a piezo-electric element 53 whose impedance changes according to an air pressure of a tire and a rim-side coil 13 is changed by a fluctuation of an ambient environment of the tire. An excitation coil (a car-body side coil) 99 which is electromagnetically coupled with the rim-side coil 13 without any contact excites the resonance circuit 400 by AC current where frequency changes and a reception coil (the car-body side coil) 101 which is electromagnetically coupled with the rim-side coil 13 without any contact detects a current of the resonance circuit 400. The tire air pressure is detected by an obtained resonance frequency value. As the result, the tire air pressure can be detected without incorporating a semiconductor element or IC which is weak against heat.



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